

Fig. 1

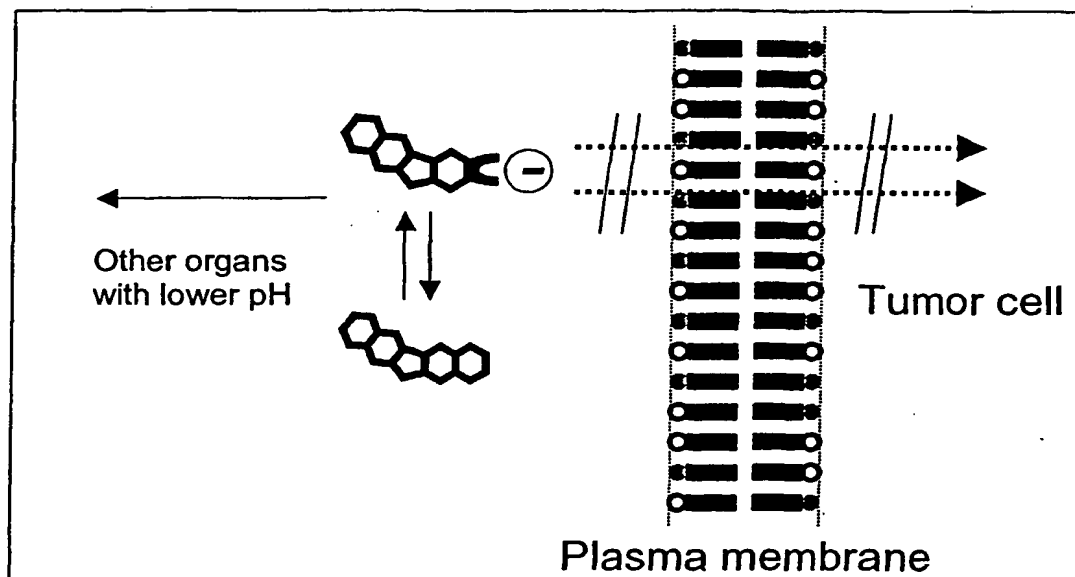


Fig. 2

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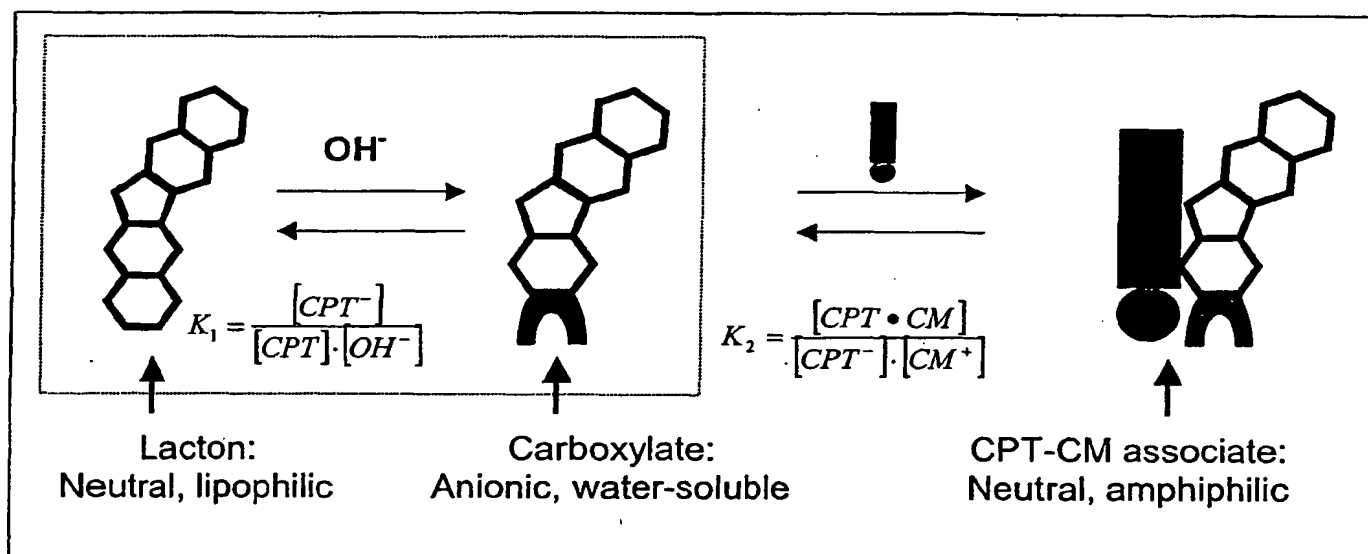


Fig. 3

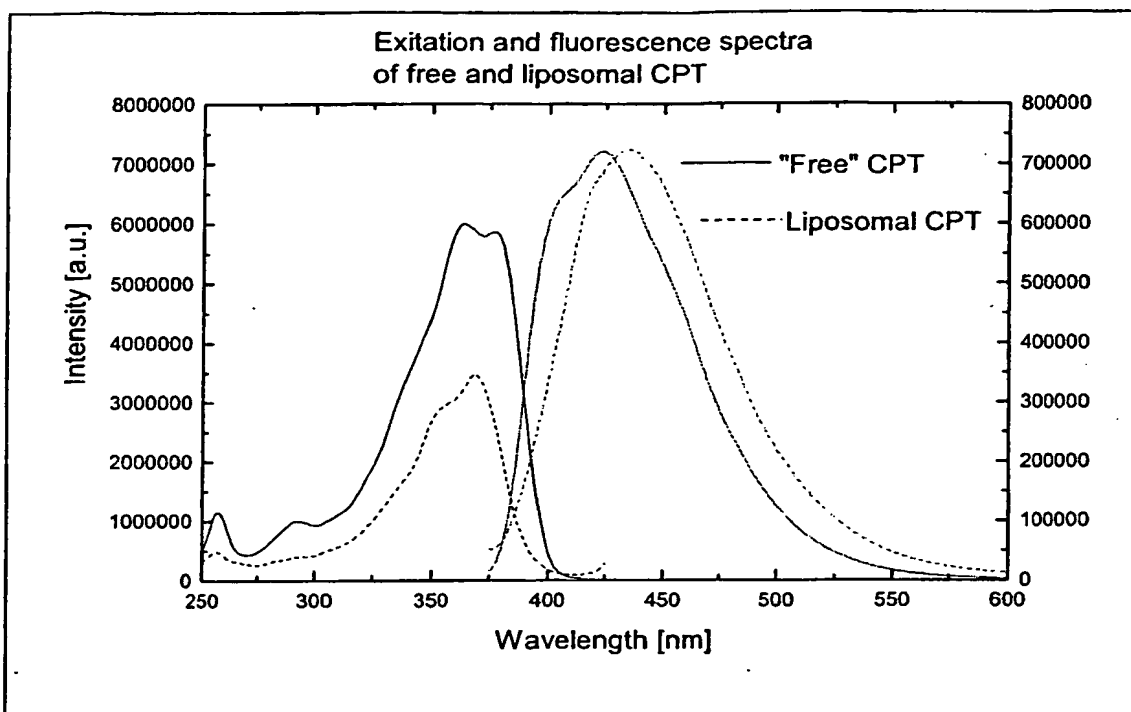


Fig. 4

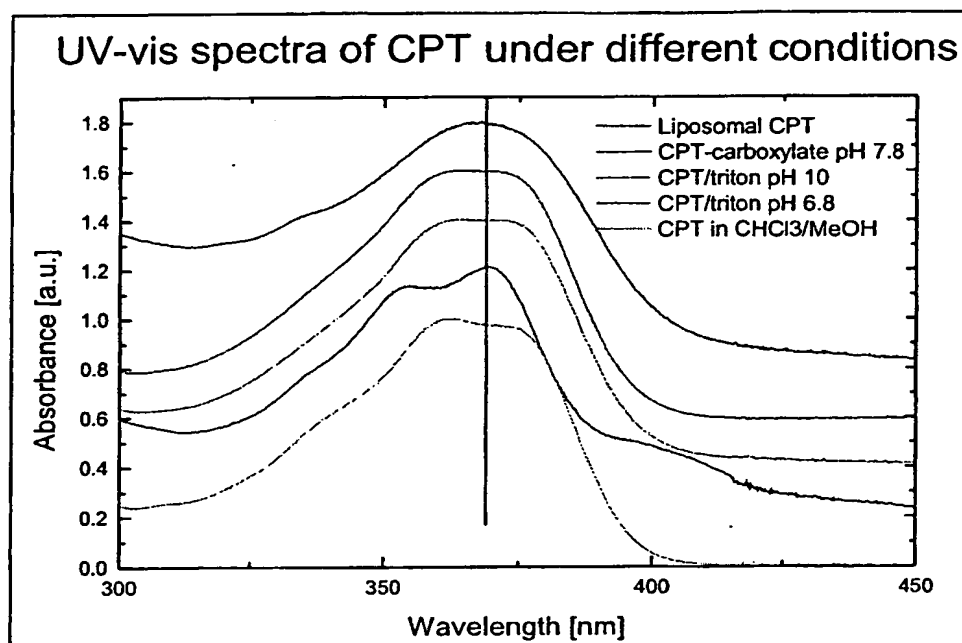
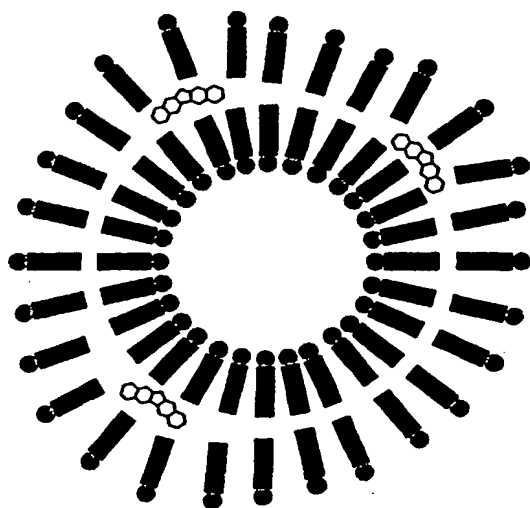
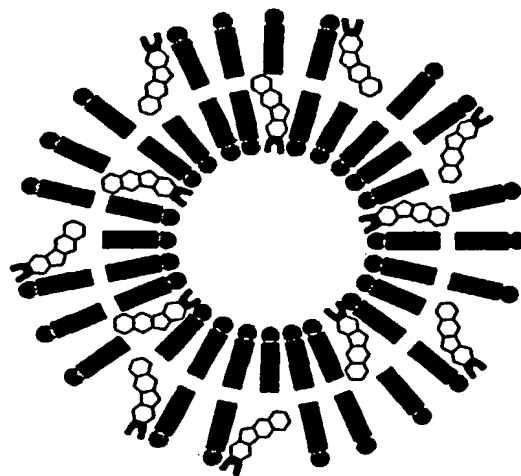


Fig. 5



Usually for lipophilic compounds
(CPT-lacton):
Solubilization in the hydrocarbon
region

• Only low drug/lipid ratio



New approach:
CM-CPT acts as colipid
It is an integral part of the liposome

• High drug/lipid ratio

Fig. 6

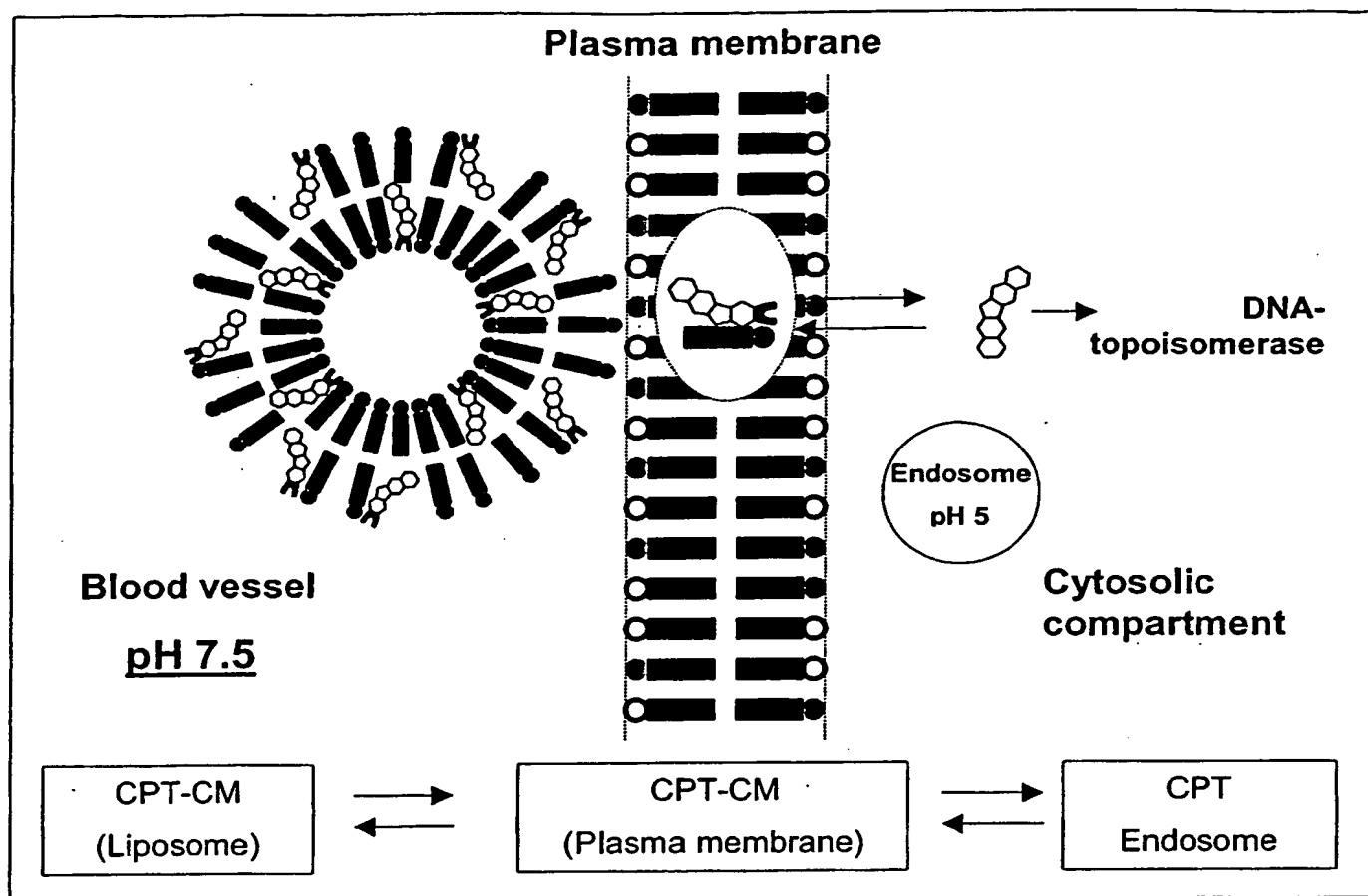


Fig. 7

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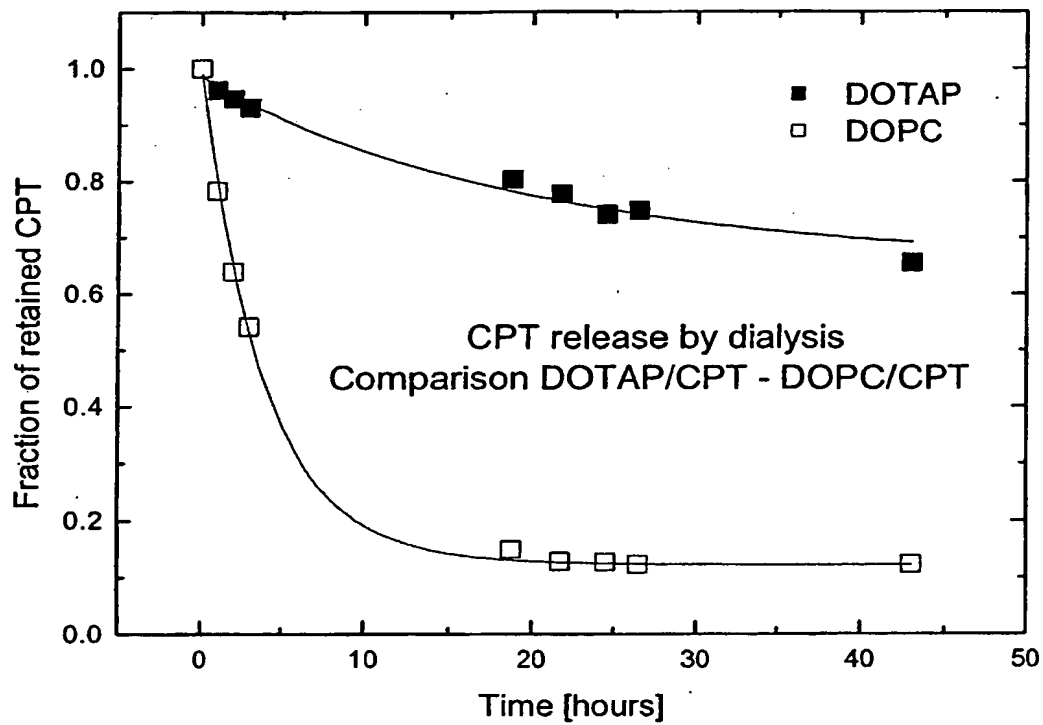


Fig. 8

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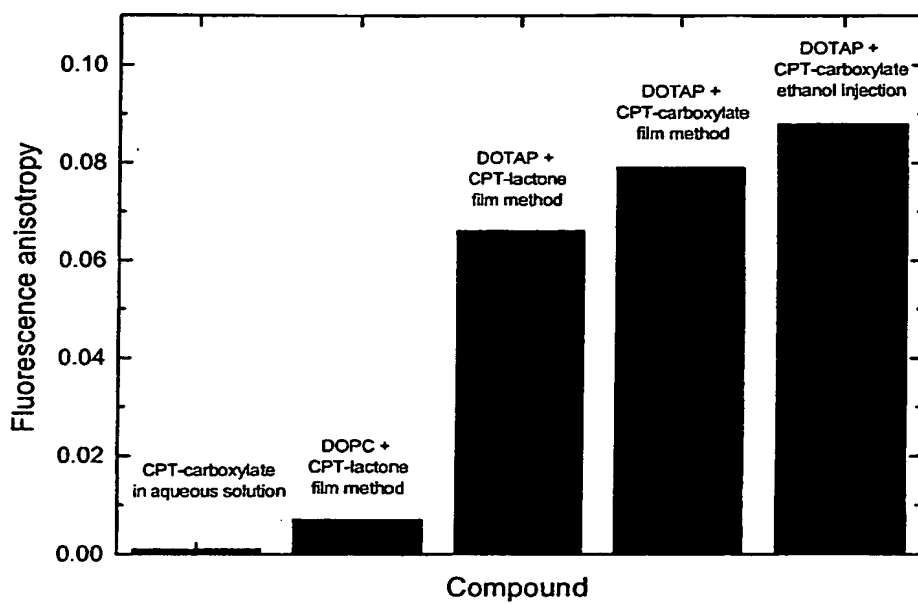


Fig 9

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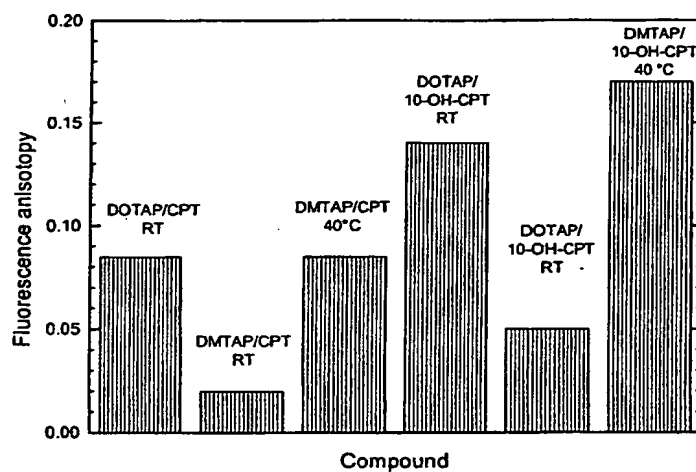


Fig. 10

Treatment of Ea.hy926 cells with Camptothecin formulations RM541, 542, 543, 544

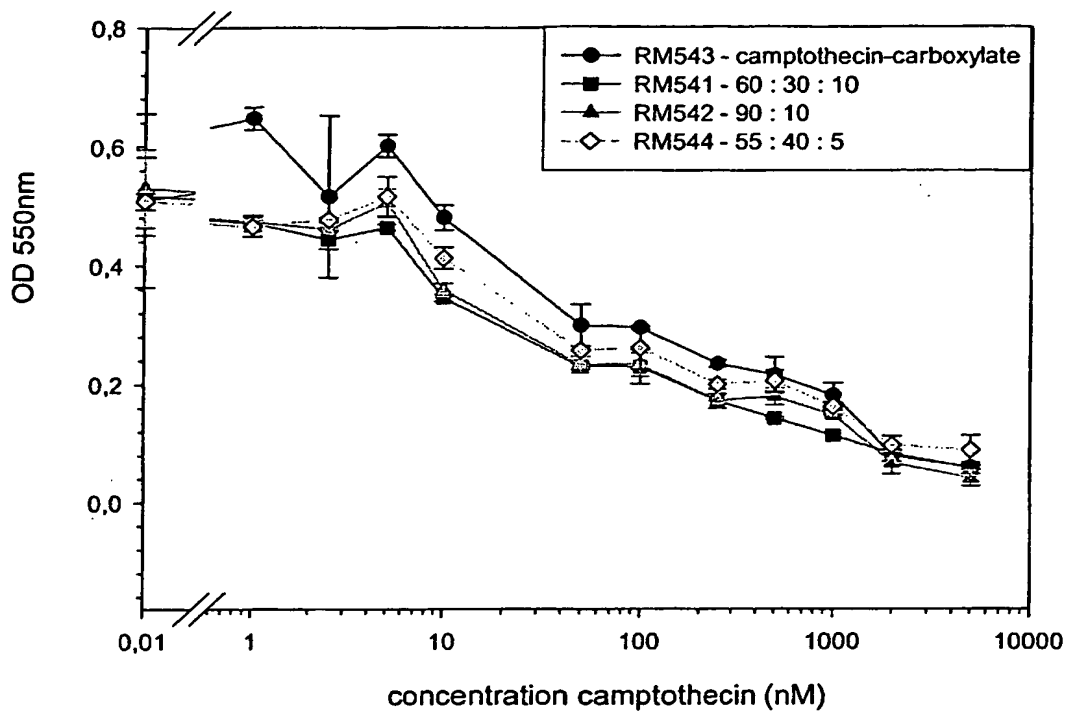


Table of IC₅₀ values

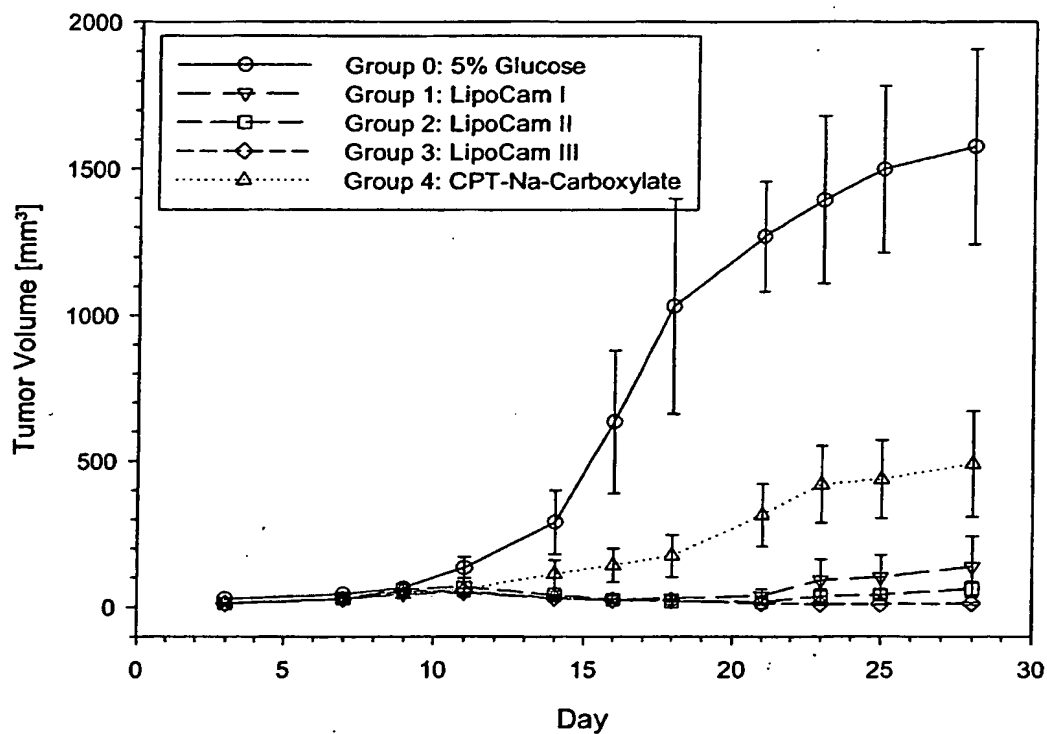
The IC₅₀ values were determined by graphically extracting the concentration at the respective half maximal OD₅₅₀ value of each curve.

Formulation	IC ₅₀ value (nM)
RM 541	22
RM 542	24
RM 543	31
RM 544	31

Fig.11

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Treatment of A-375 melanoma of NMRI nude mice

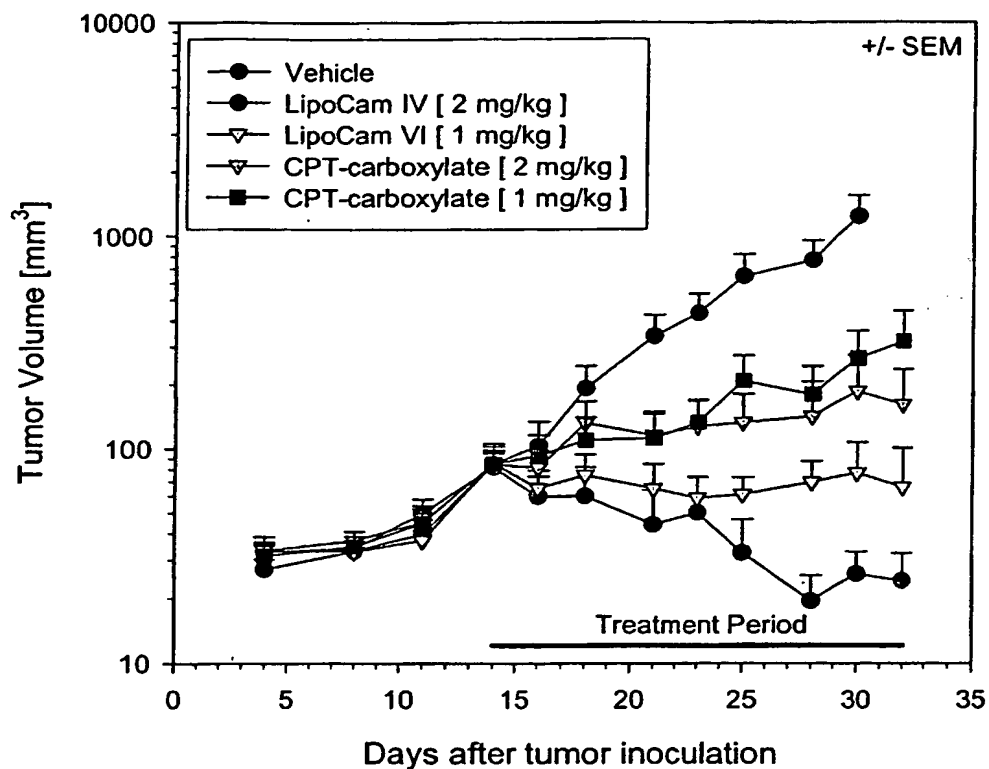


Group	Drug	Dose [mg/kg]	N° of mice
0	5 % Glucose	/	8
1	LipoCam I	5	8
2	LipoCam II	5	8
3	LipoCam III	2,5	8
4	CPT-Na-Carboxylate	1,0	8

Fig. 12

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Figure 13:

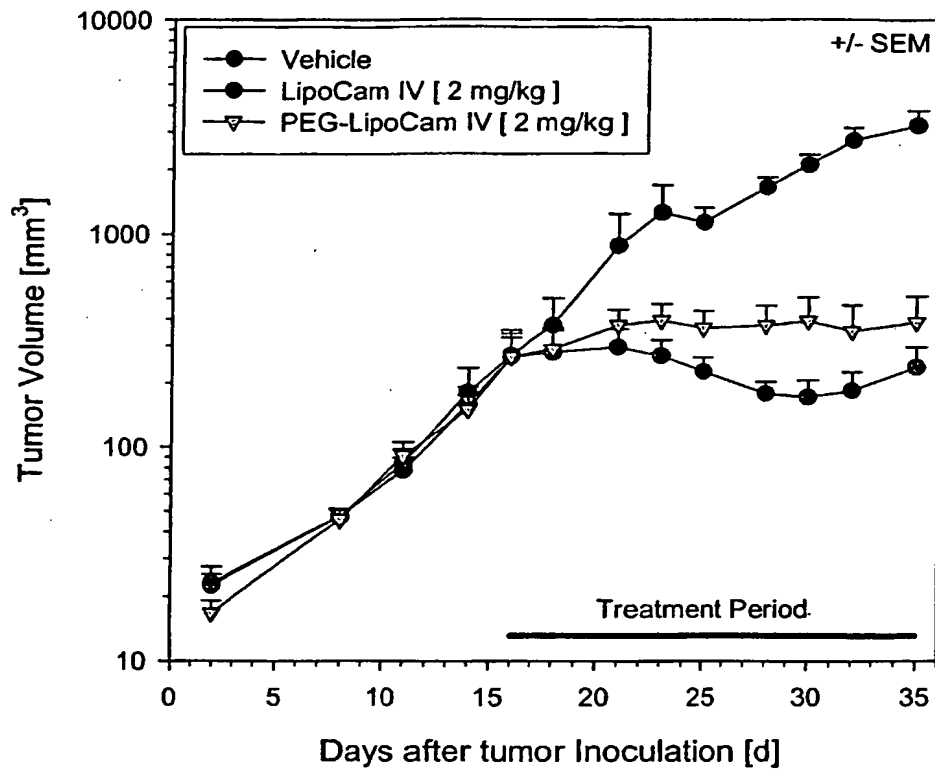
Dose-dependent therapeutic efficacy of LipoCam
on A-375 melanoma in nude mice

Group	Drug	Dose [mg/kg]	N° of mice
0	Vehicle	/	8
1	LipoCam IV	2	8
2	LipoCam VI	1	8
3	CPT-Carboxylate	2	8
4	CPT-Carboxylate	1	8

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Figure 14:

Therapeutic efficacy of LipoCam vs. PEG-LipoCam
on A-375 melanoma in nude mice



Group	Drug	Dose [mg/kg]	N° of mice
0	Vehicle	1	8
1	LipoCam IV	2	8
2	PEG-LipoCam IV	2	8